



PATENT APPLICATION
Attorney Docket No. 24881-301D

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Fredeking *et al.*

Serial No.: 10/038,557

Filed: January 3, 2002

Confirmation No.: 8399

For: ***COMPOSITIONS AND METHODS FOR TREATING HEMORRHAGIC VIRUS INFECTIONS AND OTHER DISORDERS***

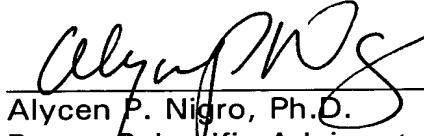
Examiner: Not Yet Assigned

VERIFIED STATEMENT PURSUANT TO 37 § C.F.R. 1.821(f)

I, Alycen P. Nigro, declare that I personally prepared the computer-readable form of the Sequence Listing set forth in the above-entitled case and that the content of the paper copy and the computer-readable form are the same. The computer-readable file is titled 301DSEQ.002.

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Dated at San Diego, California this 24th day of May, 2002.

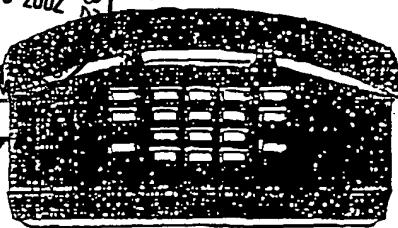


Alycen P. Nigro, Ph.D.
Patent Scientific Advisor to
Stephanie Seidman
Registration No. 33,779
Attorney for Applicant

Patent and Trademark Office

Office of Initial Patent Examination (OIPE)
Customer Service

703 308-1202 or 1203 Fax (703) 308-7751



Fax

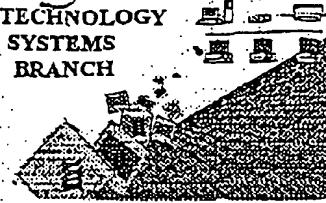
To: Manita Oteil From: Francis J. Young
Fax: 858-450-8499 Pages: 12
Phone: 858-450-8400 Date: May 24, 02
Re: _____ Office: (OIPE) Customer Service

Urgent Corrected Filing Receipt Replacement Filing Receipt Please Reply

Comments:



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND CHIEF
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

BIOTECHNOLOGY
SYSTEMS
BRANCH

04P

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/038,557
Source: OIPE
Date Processed by STIC: 1/28/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

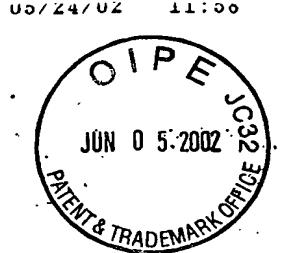
Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



OIPC

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/038,557

DATE: 01/28/2002
TIME: 18:06:10

Input Set : A:\301dseq.001
Output Set: N:\CRF3\01282002\J038557.raw

Does Not Comply
Corrected Diskette Needed

JK 15

3 <110> APPLICANT: Fredeking, Terry M.
4 Ignatyev, George M.
6 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING HEMORRHAGIC VIRUS
7 INFECTIONS AND OTHER DISORDERS
9 <130> FILE REFERENCE: 24881-301D
COK> 11 <140> CURRENT APPLICATION NUMBER: US/10/038,557
COK> 12 <141> CURRENT FILING DATE: 2002-01-03
14 <150> PRIOR APPLICATION NUMBER: 09/840,707
15 <151> PRIOR FILING DATE: 2001-04-23
17 <150> PRIOR APPLICATION NUMBER: 09/562,979
18 <151> PRIOR FILING DATE: 2000-04-27
20 <150> PRIOR APPLICATION NUMBER: 60/198,210
21 <151> PRIOR FILING DATE: 1999-04-27
23 <160> NUMBER OF SEQ ID NOS: 26
25 <170> SOFTWARE: PatentIn Ver. 2.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 271
29 <212> TYPE: PRT
30 <213> ORGANISM: Homo sapiens
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Recombinant Interleukin 1-alpha
35 <300> PUBLICATION INFORMATION:
36 <308> DATABASE ACCESSION NO: AAA59134/GenBank
W--> 38 <300> PUBLICATION INFORMATION: 1 → this indicates an error

39 Met Ala Lys Val Pro Asp Met Phe Glu Asp Leu Lys Asn Cys Tyr Ser
40 1 5 10 15
42 Glu Asn Glu Glu Asp Ser Ser Ser Ile Asp His Leu Ser Ile Asn Gln
43 20 25 30
45 Lys Ser Phe Tyr His Val Ser Tyr Gly Pro Leu His Glu Gly Cys Met
46 35 40 45
48 Asp Gln Ser Val Ser Leu Ser Ile Ser Glu Thr Ser Lys Thr Ser Lys
49 50 55 60
51 Leu Thr Phe Lys Glu Ser Met Val Val Ala Thr Asn Gly Lys Val
52 65 70 75 80
54 Leu Lys Lys Arg Arg Leu Ser Leu Ser Gln Ser Ile Thr Asp Asp Asp
55 85 90 95
57 Leu Glu Ala Ile Ala Asn Asp Ser Glu Glu Ile Ile Lys Pro Arg
58 100 105 110
60 Ser Ala Pro Phe Ser Phe Leu Ser Asn Val Lys Tyr Asn Phe Met Arg
61 115 120 125
63 Ile Ile Lys Tyr Glu Phe Ile Leu Asn Asp Ala Leu Asn Gln Ser Ile
64 130 135 140
66 Ile Arg Ala Asn Asp Gln Tyr Leu Thr Ala Ala Leu His Asn Leu

C3097 and
response are
mandatory
 whenever C3087
 has a response

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/038,557

DATE: 01/28/2002
TIME: 18:06:10

Input Set : A:\301dseq.001
Output Set: N:\CRF3\01282002\J038557.raw

67 145 150 155 160
69 Asp Glu Ala Val Lys Phe Asp Met Gly Ala Tyr Lys Ser Ser Lys Asp
70 165 170 175
72 Asp Ala Lys Ile Thr Val Ile Leu Arg Ile Ser Lys Thr Gln Leu Tyr
73 180 185 190
75 Val Thr Ala Gln Asp Glu Asp Gln Pro Val Leu Leu Lys Glu Met Pro
76 195 200 205
78 Glu Ile Pro Lys Thr Ile Thr Gly Ser Glu Thr Asn Leu Leu Phe Phe
79 210 215 220
81 Trp Glu Thr His Gly Thr Lys Asn Tyr Phe Thr Ser Val Ala His Pro
82 225 230 235 240
84 Asn Leu Phe Ile Ala Thr Lys Gln Asp Tyr Trp Val Cys Leu Ala Gly
85 245 250 255
87 Gly Pro Pro Ser Ile Thr Asp Phe Gln Ile Leu Glu Asn Gln Ala
88 260 265 270

92 <210> SEQ ID NO: 2

93 <211> LENGTH: 269

94 <212> TYPE: PRT

95 <213> ORGANISM: Homo sapiens

97 <220> FEATURE:

98 <223> OTHER INFORMATION: Interleukin-1 beta (catabolin)

100 <300> PUBLICATION INFORMATION:

101 <308> DATABASE ACCESSION NO: P01584/Genbank

W--> 103 <400> PUBLICATION INFORMATION: 2 *same error*

104 Met Ala Glu Val Pro Lys Leu Ala Ser Glu Met Met Ala Tyr Tyr Ser
105 1 5 10 15
107 Gly Asn Glu Asp Asp Leu Phe Phe Glu Ala Asp Gly Pro Lys Gln Met
108 20 25 30
110 Lys Cys Ser Phe Gln Asp Leu Asp Leu Cys Pro Leu Asp Gly Gly Ile
111 35 40 45
113 Gln Leu Arg Ile Ser Asp His His Tyr Ser Lys Gly Phe Arg Gln Ala
114 50 55 60
116 Ala Ser Val Val Val Ala Met Asp Lys Leu Arg Lys Met Leu Val Pro
117 65 70 75 80
119 Cys Pro Gln Thr Phe Gln Glu Asn Asp Leu Ser Thr Phe Phe Pro Phe
120 85 90 95
122 Ile Phe Glu Glu Pro Ile Phe Phe Asp Thr Trp Asp Asn Glu Ala
123 100 105 110
125 Tyr Val His Asp Ala Pro Val Arg Ser Leu Asn Cys Thr Leu Arg Asp
126 115 120 125
128 Ser Gln Gln Lys Ser Leu Val Met Ser Gly Pro Tyr Glu Leu Lys Ala
129 130 135 140
131 Leu His Leu Gln Gln Asp Met Glu Gln Gln Val Val Phe Ser Met
132 145 150 155 160
134 Ser Phe Val Gln Gln Glu Glu Ser Asn Asp Lys Ile Pro Val Ala Leu
135 165 170 175
137 Gly Leu Lys Glu Lys Asn Leu Tyr Leu Ser Cys Val Leu Lys Asp Asp
138 180 185 190
140 Lys Pro Thr Leu Gln Leu Glu Ser Val Asp Pro Lys Asn Tyr Pro Lys

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/038.557DATE: 01/28/2002
TIME: 18:06:10Input Set : A:\301dseq.001
Output Set: N:\CRF3\01282002\J038557.raw

141 195 200 205
 144 Lys Lys Met Glu Lys Arg Phe Val Phe Asn Lys Ile Glu Ile Asn Asn
 145 210 215 220
 147 Lys Leu Clu Phe Glu Ser Ala Gin Phe Pro Asn Trp Tyr Ile Ser Thr
 148 225 230 235 240
 150 Ser Gin Ala Glu Asn Met Pro Val Phe Leu Gly Gly Thr Lys Gly Gly
 151 245 250 255
 153 Gin Asp Ile Thr Asp Phe Thr Met Gln Phe Val Ser Ser
 154 260 265
 157 <210> SEQ ID NO: 3
 158 <211> LENGTH: 569
 159 <212> TYPE: PRT
 160 <213> ORGANISM: Homo sapiens
 162 <220> FEATURE:
 163 <223> OTHER INFORMATION: Interleukin-1 receptor, Type I precursor
 165 <300> PUBLICATION INFORMATION:
 166 <308> DATABASE ACCESSION NO: M14778/GenBank
 W--> 168 <300> PUBLICATION INFORMATION: 3 *random error*
 169 Met Lys Val Leu Leu Arg Leu Ile Cys Phe Ile Ala Leu Leu Ile Ser
 170 1 5 10 15
 172 Ser Leu Glu Ala ASP Lys Cys Lys Glu Arg Glu Glu Lys Ile Ile Leu
 173 20 25 30
 175 Val Ser Ser Ala Asn Glu Ile Asp Val Arg Pro Cys Pro Leu Asn Pro
 176 35 40 45
 178 Asn Glu His Lys Gly Thr Ile Thr Trp Tyr Lys Asp Asp Ser Lys Thr
 179 50 55 60
 181 Pro Val Ser Thr Glu Gin Ala Ser Arg Ile His Gln His Lys Glu Lys
 182 65 70 75 80
 184 Leu Trp Phe Val Pro Ala Lys Val Glu Asp Ser Gly His Tyr Tyr Cys
 185 85 90 95
 187 Val Val Arg Asn Ser Ser Tyr Cys Leu Arg Ile Lys Ile Ser Ala Lys
 188 100 105 110
 190 Phe Val Glu Asn Glu Pro Asn Leu Cys Tyr Asn Ala Gln Ala Ile Phe
 191 115 120 125
 193 Lys Gln Lys Leu Pro Val Ala Gly Asp Gly Lys Val Cys Pro Tyr
 194 130 135 140
 196 Met Clu Phe Phe Lys Asn Glu Asn Asn Glu Leu Pro Lys Leu Gln Trp
 197 145 150 155 160
 199 Tyr Lys Asp Cys Lys Pro Leu Leu Leu Asp Asn Ile His Phe Ser Gly
 200 165 170 175
 202 Val Lys Asp Arg Leu Ile Val Met Asn Val Ala Glu Lys His Arg Gly
 203 180 185 190
 205 Asn Tyr Thr Cys His Ala Ser Tyr Thr Tyr Leu Gly Lys Gln Tyr Pro
 206 195 200 205
 208 Ile Thr Arg Val Ile Glu Phe Ile Thr Leu Glu Glu Asn Lys Pro Thr
 209 210 215 220
 213 Arg Pro Val Ile Val Ser Pro Ala Asn Glu Thr Met Glu Val Asp Leu
 214 225 230 235 240
 216 Gly Ser Gln Ile Gln Leu Ile Cys Asn Val Thr Gly Gln Leu Ser Asp

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/038,557

DATE: 01/28/2002
TIME: 18:06:10

Input Set : A:\301dseq.001
Output Set: N:\CRF3\01282002\J038557.raw

217	245	250	255
219	Ile Ala Tyr Trp Lys Trp Asn Gly Scr Val Ile Asp Glu Asp Asp Pro		
220	260	265	270
222	Val Leu Gly Glu Asp Tyr Tyr Ser Val Glu Asn Pro Ala Asn Lys Arg		
223	275	280	285
225	Arg Ser Thr Leu Ile Thr Val Leu Asn Ile Ser Glu Ile Glu Ser Arg		
226	290	295	300
228	Phe Tyr Lys His Pro Phe Thr Cys Phe Ala Lys Asn Thr His Gly Ile		
229	305	310	315
231	Asp Ala Ala Tyr Ile Gln Leu Ile Tyr Pro Val Thr Asn Phe Gln Lys		
232	325	330	335
234	His Met Ile Gly Ile Cys Val Thr Leu Thr Val Ile Ile Val Cys Ser		
235	340	345	350
237	Val Phe Ile Tyr Lys Ile Phe Lys Ile Asp Ile Val Leu Trp Tyr Arg		
238	355	360	365
240	Asp Ser Cys Tyr Asp Phe Leu Pro Ile Lys Ala Ser Asp Gly Lys Thr		
241	370	375	380
243	Tyr Asp Ala Tyr Ile Leu Tyr Pro Lys Thr Val Gly Glu Gly Ser Thr		
244	385	390	395
246	Ser Asp Cys Asp Ile Phe Val Phe Lys Val Leu Pro Glu Val Leu Glu		
247	405	410	415
249	Lys Gln Cys Gly Tyr Lys Leu Phe Ile Tyr Cys Arg Asp Asp Tyr Val		
250	420	425	430
252	Gly Glu Asp Ile Val Glu Val Ile Asn Glu Asn Val Lys Lys Ser Arg		
253	435	440	445
255	Arg Leu Ile Ile Ile Leu Val Arg Gln Thr Ser Gly Phe Ser Trp Leu		
256	450	455	460
258	Gly Gly Ser Ser Glu Glu Gln Ile Ala Met Tyr Asn Ala Leu Val Gln		
259	465	470	475
261	Asp Gly Ile Lys Val Val Leu Leu Glu Leu Glu Lys Ile Gln Asp Tyr		
262	485	490	495
264	Glu Lys Met Pro Glu Ser Ile Lys Phe Ile Lys Gln Lys His Gly Ala		
265	500	505	510
267	Ile Arg Trp Ser Cys Asp Phe Thr Gln Gly Pro Gln Ser Ala Lys Thr		
268	515	520	525
270	Arg Phe Trp Lys Asn Val Arg Tyr His Met Pro Val Gln Arg Arg Ser		
271	530	535	540
273	Pro Ser Ser Lys His Gln Leu Leu Ser Pro Ala Thr Lys Glu Lys Leu		
274	545	550	555
276	Gln Arg Glu Ala His Val Pro Leu Gly		
277	565		
279	<210> SEQ ID NO: 4		
280	<211> LENGTH: 398		
281	<212> TYPE: PRT		
282	<213> ORGANISM: Homo sapiens		
284	<220> FEATURE:		
285	<223> OTHER INFORMATION: Interleukin-1 receptor, Type II precursor		
287	<300> PUBLICATION INFORMATION:		
288	<308> DATABASE ACCESSION NO: P27930/GenBank		

See
P5

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/038,557

DATE: 01/28/2002
TIME: 18:06:10

Input Set : A:\301dseq.001
Output Set: N:\CRF3\01282002\J038557.raw

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

W--> 290 <300> PUBLICATION INFORMATION: *same error*

291 Met Leu Arg Leu Tyr Val Leu Val Met Gly Val Ser Ala Phe Thr Leu
292 1 5 10 15
294 Gln Pro Ala Ala His Thr Gly Ala Ala Arg Ser Cys Arg Phe Arg Gly
295 20 25 30
297 Arg His Tyr Lys Arg Glu Phe Arg Leu Glu Gly Glu Pro Val Ala Leu
298 35 40 45
300 Arg Cys Pro Gln Val Pro Tyr Trp Leu Trp Ala Ser Val Ser Pro Arg
301 50 55 60
303 Ile Asn Leu Thr Trp His Lys Asn Asp Ser Ala Arg Thr Val Pro Gly
304 65 70 75 80
306 Glu Glu Glu Thr Arg Met Trp Ala Gln Asp Gly Ala Leu Trp Leu Leu
307 85 90 95
309 Pro Ala Leu Gln Glu Asp Ser Gly Thr Tyr Val Cys Thr Thr Arg Asn
310 100 105 110
312 Ala Ser Tyr Cys Asp Lys Met Ser Ile Glu Leu Arg Val Phe Glu Asn
313 115 120 125
315 Thr Asp Ala Phe Leu Pro Phe Ile Ser Tyr Pro Gln Ile Leu Thr Leu
316 130 135 140
318 Ser Thr Ser Gly Val Leu Val Cys Pro Asp Leu Ser Glu Phe Thr Arg
319 145 150 155 160
321 Asp Lys Thr Asp Val Lys Ile Gln Trp Tyr Lys Asp Ser Leu Leu Leu
322 165 170 175
324 Asp Lys Asp Asn Glu Lys Phe Leu Ser Val Arg Gly Thr Thr His Leu
325 180 185 190
327 Leu Val His Asp Val Ala Leu Glu Asp Ala Gly Tyr Tyr Arg Cys Val
328 195 200 205
330 Leu Thr Phe Ala His Glu Gly Gln Gln Tyr Asn Ile Thr Arg Ser Ile
331 210 215 220
333 Glu Leu Arg Ile Lys Lys Lys Glu Glu Thr Ile Pro Val Ile Ile
334 225 230 235 240
336 Ser Pro Leu Lys Thr Ile Ser Ala Ser Leu Gly Ser Arg Leu Thr Ile
337 245 250 255
339 Pro Cys Lys Val Phe Leu Gly Thr Gly Thr Pro Leu Thr Thr Met Leu
340 260 265 270
342 Trp Trp Thr Ala Asn Asp Thr His Ile Glu Ser Ala Tyr Pro Gly Gly
343 275 280 285
345 Arg Val Thr Glu Gly Pro Arg Gln Glu Tyr Ser Glu Asn Asn Glu Asn
346 290 295 300
348 Tyr Ile Glu Val Pro Leu Ile Phe Asp Pro Val Thr Arg Glu Asp Leu
349 305 310 315 320
351 His Met Asp Phe Lys Cys Val Val His Asn Thr Leu Ser Phe Gln Thr
352 325 330 335
354 Leu Arg Thr Thr Val Lys Glu Ala Ser Ser Thr Phe Ser Trp Gly Ile
355 340 345 350
357 Val Leu Ala Pro Leu Ser Leu Ala Phe Leu Val Leu Gly Gly Ile Trp
358 355 360 365
360 Met His Arg Arg Cys Lys His Arg Thr Gly Lys Ala Asp Gly Leu Thr
361 370 375 380

VERIFICATION SUMMARY DATE: 01/28/2002
PATENT APPLICATION: US/10/038,557 TIME: 18:06:11

Input Set : A:\301dseq.001
Output Set: N:\CRF3\01282002\J038557.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:38 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:1
L:103 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:2
L:168 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:3
L:290 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:4
L:379 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:5
L:840 M:283 W: Missing Blank Line separator, <220> field identifier
L:872 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:14
L:932 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:15
L:986 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:16
L:1090 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:17